

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,916	12/06/2004	Axel Thiess	1703 1326US	7444
29894 7590 03/16/2007 DREISS, FUHLENDORF, STEIMLE & BECKER POSTFACH 10 37 62 D-70032 STUTTGART, GERMANY			EXAMINER	
			TARAZANO, DONALD LAWRENCE	
			ART UNIT	PAPER NUMBER
			1773	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
· _	10/516,916	THIESS ET AL.				
Office Action Summary	Examiner	Art Unit				
• •	D. Lawrence Tarazano	1773				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EVDIDE 2 MONTH/	S) OD THIPTY (30) DAYS				
WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on		·				
,	– action is non-final.					
,— ,						
•—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
•	.	•				
4) Claim(s) 19-45 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>19-45</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
	·	•				
Application Papers	,					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		:				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) I None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·	•					
		•				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date <u>6/12/04</u> . 6) Other:						

Application/Control Number: 10/516,916 Page 2

Art Unit: 1773

DETAILED ACTION

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter, which the applicant regards as his invention.

2. Claims 19-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

3. It is unclear what state the coating material is. Is this a cured composition or a liquid

coating material? The applicants claim "liquid" components present.

4. In claims 24, 25, and are 26, it is unclear what the percentages are based, and if the total

components of the composition must add up to 100%. It is also unclear if the % set forth for the

PVC is emulsion (including water) or polymer. Is this based on the cured composition?

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 19, 20, 23, 27, 28, 29-31-35, 37, 38, 40, 41, 42, 43, 44, and 45 are rejected under

35 U.S.C. 102(e) as being anticipated by Lagace (6,153,666).

Application/Control Number: 10/516,916 Page 3

Art Unit: 1773

7. Lagace teaches mixtures of plastisol (PVC), metallic tin and barium carbonate (example

1), this composition has a weight savings over Lead foil. These compositions may comprise

plasticizers (column 2, lines 40+). The composition is cast on a support and thus meets the

claimed two-layer structure. Regarding claims 30-34, the applicants have set forth a test method

for measuring the properties of the structure, given the amount of fillers present, it is the

examiners position that the coating would have the claimed properties. The two -layer structure

could be washed as claim set forth in claim 41. It is integrally connected to the composition (as

long as it is present) claim 42. The process of coating 43-44 is the simple process of casting

the composition on a support.

8. The filler content results in materials having the claimed properties.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 19-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lagace (6,153,666).
- 11. The general properties of Lagace are set forth above; it would have been obvious to one having ordinary skill in the art to have varied the amounts and types of fillers present depending on the desired degree of barrier properties with respect to radiation as well as the thickness of the

Art Unit: 1773

structure. The examiner notes that increased amounts of fillers will increase the weight of the structure, but will increase the barrier properties too.

Page 4

The composition may comprise a variety of polymers (column 2, lines 20+). The properties of each of these polymers are well understood in the art. It would have been obvious to one having ordinary skill in the art, in the absence of unexpected results, to have mixed PVC and a "caoutchouc" (e.g. thermosetting polyurethane, natural rubber, etc...) when those properties were desired in the final composition, this would be a minor component and the effect of this would be directly related to the amount used. Natural rubber would add rubber properties to the PVC.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Lawrence Tarazano whose telephone number is (571)-272-1515. The examiner can normally be reached on 8:30 to 6:00 (off every other Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571)-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/516,916

Art Unit: 1773

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

D. Lawrence Tarazano Primary Examiner Art Unit 1773 Page 5

